GTS-250 series



SPECIFICATIONS GTS-252 GTS-255 Telescope Magnification Resolving power Length: 150mm, Objective aperture: 45mm (50mm for EDM), Image: Erect, Field of view: 1°30' (26m/1,000m), Minimum focus: 1.3m 1" / 5" (0.0002 / 0.001gon) Display resolutions (selectable) Accuracy (ISO 17123-3:2001) 5" Method Absolute rotary encoder scanning Detecting system Horizontal Vertical Compensator Dual-axis liquid tilt sensor, working range: ±3', Correction unit: 1" **Distance measurement** Measuring range (under average conditions*1) Mini prism 900m (3,000ft) One prism 2,000m (6,600ft.) / Under good conditions*2: 2,300m (7,500ft.) Three prisms 2,700m (8,900ft.) / Under good conditions*2: 3,100m (10,200ft.) Accuracy (D=measuring distance in mm) ±(2mm + 2ppm x D) m.s.e. Fine: 1mm (0.005ft.) / 0.2mm (0.001ft.), Coarse: 10mm (0.02ft.) / 1mm (0.005ft.), Tracking: 10mm (0.02ft.) Least count in measurement Fine: 1mm: 1.2s (Initial 4s) / 0.2mm: 2.8s (Initial 5s), Coarse: 0.7s (Initial 3s), Tracking: 0.4s (Initial 3s) Measurement time Interface and Data mana Graphics LCD, 160 × 64dots Keyboard Alphanumeric 24keys Control panel location On both faces Data storage Internal memory 24,000pts. Interface RS-232C General Circular level 10' / 2mm Levels 30" / 2mm Optical plummet telescope Magnification: 3x, Focusing range: 0.5m to infinity, Image: Erect Dust and water protection (With BT-G1W) IP54 (IEC 60529) -20 to +50°C (-4 to 122°F) Operating temperature W184 x D172 x H336mm (W7.2 x D6.8 x H13.2in.) /176mm (6.93in.) from the tribrach dish Size / Instrument height Weight Instrument with battery 4.9kg (10.8lbs) Plastic carrying case 3.4kg (7.5lbs), Weight of the carrying case may be slightly different due to specific market. **Power supply**

1.8 hours (+10 to +40°C)

Approx. 27 hours (Single distance measurement every 30 seconds at +20°C / +68°F*4)

Approx. 9 hours (Continuous distance measurement at +20°C / +68°F)

Recharging time



Battery (BT-G1W)

Battery charger

Standard Accessories

• Main unit x 1

Operating time (Fine mode)

- Battery (BT-G1W) x 1
- Battery Charger x 1
- Lens cap x 1
- Tool kit with case x 1
- Plastic rain cover x 1
- Silicon cloth x 1Carrying Case x 1
- #TOPCON

TOPCON CORPORATION

75-1 Hasunuma-cho, Itabashi-ku, Tokyo 174-8580, Japan Phone: (+81)3-3558-2993 Fax: (+81)3-3960-4214

<Contact to>

Topcon Singapore Positioning Sales Pte Ltd
60 Alexandra Terrace.

#08-27 The Comtech, Singapore 118502 Phone: (+65)6778-3456 Fax: (+65)6773-6550 Email: svy.regional@topcon.com.sg

©2013 Topcon Corporation All rights reserved. P-171-1 SG

Specifications subject to change without notice.
 Other trademarks and trade names are those of their respective owners.

Your local Authorized Topcon dealer is:





GTS-250 series

TOTAL STATION



High-Performance & High-Quality

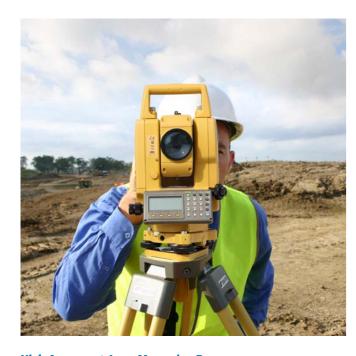
- Superior Waterproof and Dustproof
- High Accuracy & Long Measuring Range
- Enhanced Absolute Encoder
- Versatile Application Functions
- Dual-Axis Tilt Sensor
- Designed by Topcon

^{*1} Average conditions: Slight haze with visibility about 20km (12.5 miles) moderate sunlight with light heat shimmer. *2 Good conditions: No haze with visibility about 40km (25 miles), overcast with no heat shimmer.

^{*3} The initial time will be different by a condition and setting EDM off time.
*4 On the condition EDM off time is set at 0 minutes.

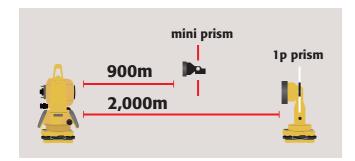


High-Performance & High-Quality



High Accuracy & Long Measuring Range

- High accuracy: ±(2mm+2ppm x D) m.s.e.
- Long distance: 2,000m with a Single Prism.

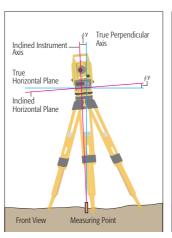


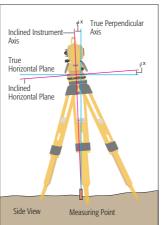
Superior Waterproof and Dustproof

GTS-250 series conform to IEC Standard IP54. No worry about sudden bad weather.

Dual-axis tilt sensor

The dual-axis tilt sensor monitors inclination of both the X and Y axes, and the correct horizontal and vertical angle readings automatically.





Enhanced Absolute Encoder

GTS-250 Series adopted an absolute encoder system, which doesn't require 0 set and realizes stable measurement with less reading error.

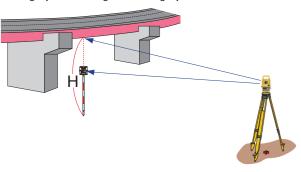
Extra-large memory capacity for 24,000 points

GTS-250 Series store the measured data up to 24,000 points.

Versatile Application Functions

Remote Elevation Measurement (R.E.M.)

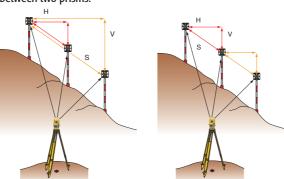
To easily determine the height of a point where a prism cannot be placed. Take a distance to a prism placed either directly above or directly below the target point, then sight to the target point.



On-board data collection, Survey, Layout, Road Calculation, and many more functions.

Missing Line Measurement (M.L.M.)

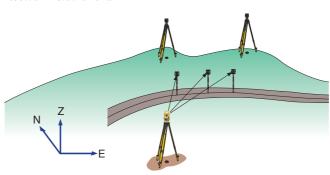
To measure horizontal distance, slope distance and height difference between two prisms.





LAYOUT

Layout function for coordinate measurement and control stakeout and resection measurements.



Road

Road function automatically calculates parameters of a complicated spiral curve and a long distance route simply by defining the start point, end point and curve elements.

